

Substitute Form PTO-1449
(Modified)U.S. Department of Commerce
Patent and Trademark OfficeAttorney's Docket No.
10559-131002Application No.
10/664,202
Information Disclosure Statement
by Applicant
 (Use several sheets if necessary)
 (37 CFR 1.98(b))
Applicant
Gilbert Wolrich et al.Filing Date
09/16/03Group Art Unit
2181 *2111*

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
<i>GCR</i>	AA	6,694,380	02/17/2004	Wolrich et al.			
	AB	6,681,300	01/20/2004	Wolrich et al.			
	AC	6,668,317	12/23/2003	Bernstein et al.			
	AD	6,667,920	06/09/2003	Wolrich et al.			
	AE	6,661,794	12/09/2003	Wolrich et al.			
	AF	6,631,462	10/07/2003	Wolrich et al.			
	AG	6,631,430	10/07/2003	Wolrich et al.			
	AH	6,625,654	09/23/2003	Wolrich et al.			
	AI	6,606,704	08/12/2003	Adiletta et al.			
	AJ	6,587,906	07/01/2003	Wolrich et al.			
	AK	6,584,522	06/24/2003	Wolrich et al.			
	AL	6,577,542	06/10/2003	Wolrich et al.			
	AM	6,560,667	05/06/2003	Wolrich et al.			
	AN	6,552,826	04/22/2003	Adler et al.			
	AO	6,532,509	03/11/2003	Wolrich et al.			
	AP	6,463,072	10/08/2002	Wolrich et al.			
	AQ	6,434,145	08/13/2002	Opsasnick et al.			
	AR	6,430,626	08/06/2002	Witkowski et al.			
	AS	6,427,196	07/30/2002	Adiletta et al.			
	AT	6,426,940	07/30/2002	Seo et al.			
	AU	6,415,338	07/02/2002	Habot			
	AV	6,393,483	05/21/2002	Latif et al.			
	AW	6,389,449	05/14/2002	Nermirovsky et al.			
	AX	6,373,848	04/16/2002	Allison et al.			
	AY	6,360,262	03/19/2002	Guenthner et al.			
	AZ	6,356,692	03/12/2002	Kasper et al.			
<i>V</i>	AAA	6,347,344	02/12/2002	Baker et al.			

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Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
GCR	ABB	6,345,334	02/05/2002	Nakagawa et al.			
	ACC	6,324,624	11/27/01	Wolrich et al.			
	ADD	6,307,789	10/23/2001	Wolrich et al.			
	AEE	6,298,370	10/02/2001	Tang et al.			
	AFF	6,289,011	09/11/2001	Seo et al.			
	AGG	6,279,113	08/21/2001	Vaidya			
	AHH	6,275,505	08/14/2001	O'Loughlin et al.			
	AII	6,272,616	08/07/2001	Fernando et al.			
	AJJ	6,256,713	07/03/2001	Audityan et al.			
	AKK	6,247,025	06/12/2001	Bacon			
	ALL	6,223,279	04/24/2001	Nishimura et al.			
	AMM	6,223,238	04/24/2001	Meyer et al.			
	ANN	6,223,207	04/24/2001	Lucovsky et al.			
	AOO	6,216,220	04/10/2001	Hwang			
	APP	6,212,611	04/03/2001	Nizar et al.			
	AQQ	6,212,542	04/03/2001	Kahle et al.			
	ARR	6,201,807	03/18/2001	Prasanna			
	ASS	6,199,133	03/06/2001	Schnell			
	ATT	6,195,676	02/27/2001	Spix et al.			
	AUU	6,182,177	01/30/2001	Harriman			
	AVV	6,160,562	12/12/2000	Chin et al.			
	AWW	6,157,955	12/05/2000	Narad et al.			
	AXX	6,145,054	11/07/2000	Mehrotra et al.			
	AYY	6,144,669	11/07/2000	Williams et al.			
	AZZ	6,141,765	10/31/2000	Sherman			
	AAAA	6,141,689	10/31/2000	Yasrebi			
↓	ABBB	6,134,665	10/17/2000	Klein et al.			

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<i>GCR</i>	ACCC	6,112,016	08/29/2000	MacWilliams et al.			
	ADDD	6,092,158	07/18/2000	Harriman et al.			
	AEEE	6,092,127	07/18/2000	Tausheck			
	AFFF	6,085,294	07/04/2000	Van Doren et al.			
	AGGG	6,085,215	07/04/2000	Ramakrishnan et al.			
	AHHH	6,079,008	06/20/2000	Clery, III			
	AIII	6,073,215	06/06/2000	Snyder			
	AJJJ	6,072,781	06/06/2000	Feeney et al.			
	AKKK	6,070,231	05/30/2000	Ottinger			
	ALLL	6,067,585	05/23/2000	Hoang			
	AMMM	6,058,168	05/02/2000	Braband			
	ANNN	6,023,742	02/08/2000	Ebeling et al.			
	AOOO	6,014,729	01/11/2000	Lannan et al.			
	APPP	6,012,151	01/04/2000	Mano			
	AQQQ	5,983,274	11/09/1999	Hyder et al.			
	ARRR	5,978,838	11/02/1999	Mohammed et al.			
	ASSS	5,978,838	11/02/1999	Heinrich et al.			
	ATTT	5,970,013	10/19/1999	Fischer et al.			
	AUUU	5,961,628	10/05/1999	Nguyen et al.			
	AVVV	5,958,031	09/28/1999	Kime			
	AWWW	5,948,081	09/07/1999	Foster			
	AXXX	5,946,487	08/31/1999	Dangelo			
	AYYY	5,940,866	08/17/1997	Chisholm et al.			
	AZZZ	5,940,612	08/17/1999	Brady et al.			
	AAAAA	5,937,187	08/21/1995	Kosche et al.			
<i>V</i>	BBBBB	5,928,736	08/17/1999	Muller et al.			
	ACCCC	5,915,123	06/22/1999	Mirsky et al.			

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<i>GR</i>	ADD55	5,905,889	05/18/1999	Wilhelm, Jr.			
	AEEE5	5,905,876	08/18/1999	Pawlowski et al.			
	FFFF5	5,892,979	04/06/1999	Shiraki et al.			
	AGGG5	5,890,208	03/30/1999	Kwon			
	AHHH5	5,887,134	03/23/1999	Ebrahim			
	AIII5	5,886,992	03/23/1999	Raatikainen et al.			
	AJJJ5	5,860,158	01/12/1999	Pai et al.			
	AKKK5	5,854,922	12/29/1998	Gravenstein et al.			
	ALLL5	5,835,755	11/10/1998	Stellwagen, Jr.			
	AMMM5	5,832,215	11/03/1998	Kato et al.			
	ANNN5	5,828,863	10/27/1998	Barrett et al.			
	AOOO5	5,828,746	10/27/1998	Ardon			
	APPP5	5,812,868	11/22/1998	Moyer et al.			
	AQQQ5	5,809,530	09/15/1998	Samra et al.			
	ARRR5	5,809,235	09/15/1998	Sharma et al.			
	ASSS5	5,797,043	08/18/1998	Lewis et al.			
	ATTT5	5,796,413	08/18/1998	Shipp et al.			
	AUUU5	5,784,712	07/21/1998	Byers et al.			
	AVVV5	5,784,649	07/21/1998	Begur et al.			
	AWWW5	5,781,774	07/14/1998	Krick			
	AXXX5	5,761,522	06/02/1998	Hisanga et al.			
	YYYY5	5,761,507	06/02/1998	Govett			
	AZZZ5	5,751,987	04/12/1998	Mahant-Shetti et al.			
	AAAAA5	5,745,913	04/28/1998	Pattin et al.			
	BBBBB5	5,742,822	04/21/1998	Motomura			
	CCCC5	5,742,782	04/21/1998	Ito et al.			
✓	DDDD5	5,742,587	04/21/1998	Zornig et al.			

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U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
<i>SCR</i>	AEEEEEE	5,721,870	02/24/1998	Matsumoto			
	AFFFFFF	5,717,898	02/10/1998	Kagan et al.			
	AGGGGGG	5,699,537	12/16/1997	Sharangpani et al.			
	AHHHHHH	5,689,566	11/18/1997	Nguyen			
	AIIIII	5,680,641	10/21/1997	Sidman			
	AJJJJJ	5,659,687	08/19/1997	Kim et al.			
	AKKKKK	5,649,157	07/15/1997	Williams			
	ALLLLL	5,644,623	07/01/1997	Gutledge			
	AMMMMI	5,630,641	05/13/1997	Perotto et al.			
	ANNNNN	5,627,829	05/06/1997	Gleeson et al.			
	AOOOOC	5,623,489	04/22/1997	Cotton et al.			
	APPPPP	5,613,136	03/18/1997	Casavant et al.			
	AQQQQQ	5,613,071	03/18/1997	Rankin et al.			
	ARRRRR	5,592,622	01/07/1997	Isfeld et al.			
	ASSSSS	5,574,922	11/12/1996	James			
	ATTTTT	5,568,617	10/22/1996	Kametani			
	AUUUUU	5,557,766	09/17/1996	Takiguchi et al.			
	AVVVVV	5,550,816	08/27/1996	Hardwick et al.			
	WWWWW	5,544,236	08/06/1996	Andruska et al.			
	AXXXXX	5,542,088	07/30/1996	Jennings, Jr. et al.			
	AYYYYY	5,542,070	07/30/1996	LeBlanc et al.			
	AZZZZZ	5,517,648	05/14/1996	Bertone et al.			
	AAAAAA	5,467,452	11/14/1995	Blum et al.			
	BBBBBB	5,463,625	10/31/1995	Yasrebi			
	ACCCCC	5,459,842	10/17/1995	Begun et al.			
	DDDDDD	5,452,437	09/19/1995	Richey et al.			
	AEEEEER	5,450,351	09/12/1995	Heddes			

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U.S. Patent Documents							
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GCR	AAAAFFF	5,448,702	09/05/1995	Garcia, Jr. et al.			
	AGGGGG	5,432,918	07/11/1995	Stamm			
	AHHHHH	5,404,484	04/04/1995	Bennett			
	AIIIII	5,404,482	04/04/1995	Stamm et al.			
	AJJJJJ	5,392,412	02/21/1995	McKenna			
	AKKKKK	5,392,411	02/21/1995	Ozaki			
	ALLLLL	5,392,391	02/21/1995	Caulk, Jr. et al.			
	MMMMMM	5,390,329	02/14/1995	Gaertner et al.			
	ANNNNN	5,367,678	11/22/1994	Lee et al.			
	AOOOOO	5,347,648	09/13/1994	Stamm et al.			
	APPPPPP	5,263,169	11/16/1993	Genusov et al.			
	AQQQQQ	5,255,239	10/19/1993	Taborn et al.			
	ARRRRR	5,173,897	12/22/1992	Schrodi et al.			
	ASSSSS	5,173,897	12/22/1992	Pfeiffer et al.			
	ATTTTT	5,168,555	12/01/1992	Byers et al.			
	AUUUUU	5,155,854	10/13/1992	Flynn et al.			
	AVVVVV	5,155,831	10/13/1992	Emma et al.			
	WWWWWW	5,142,683	08/25/1992	Burkhardt, Jr. et al.			
	AXXXXX	5,140,685	08/18/1992	Sipple et al.			
	YYYYYY	4,866,664	09/12/1989	Burkhardt, Jr. et al.			
	AZZZZZ	4,745,544	05/17/1988	Renner et al.			
	AAAAAA	4,523,272	06/11/1985	Fukunaga et al.			
	BBBBBB	4,514,807	04/30/1985	Nogi			
	CCCCCC	4,400,770	08/23/1983	Chan et al.			
	DDDDDD	4,130,890	12/19/1978	Adam			
V	EEEEEE	3,940,745	02/24/1976	Sajeva			
	FFFFFF	3,792,441	02/12/1974	Wymore et al.			

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<i>GER</i>	GGGGGG	3,478,322	11/11/1969	Evans			
	HHHHHHH	3,373,408	03/12/1968	Ling			
	AIIIIIII	10/726,757	12/03/2003	Wolrich et al.			
	AJJJJJJJ	10/684,078	10/10/2003	Wolrich et al.			
	KKKKKKK	10/644,337	08/20/2003	Wolrich et al.			
	ALLLLL	10/643,438	08/19/2003	Bernstein et al.			
	IMMMMM	10/615,500	07/08/2003	Adiletta			
	NNNNNN	10/615,280	07/08/2003	Wolrich et al.			
	OOOOOC	10/440,079	05/15/2003	Wolrich et al.			
	APPPPPP	10/208,264	07/30/2002	Adiletta et al.			
	QQQQQC	09/476,303	12/30/1999	Wolrich et al.			
	RRRRRRR	09/475,614	12/30/1999	Wolrich et al.			
	ASSSSSS	09/473,571	12/28/1999	Wolrich et al.			
<i>V</i>	ATTTTTT	09/387,109	08/31/1999	Adiletta et al.			

Foreign Patent Documents or Published Foreign Patent Applications							
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation Yes No
<i>GER</i>	UUUUUU	WO 01/50679	07/12/2001	WIPO			
	VVVVVV	WO 01/50247	07/12/2001	WIPO			
	WWWWW	WO 01/48619	07/05/2001	WIPO			
	XXXXXX	WO 01/48606	07/05/2001	WIPO			
	YYYYYY	WO 01/48596	07/05/2001	WIPO			
	ZZZZZZZ	WO 01/16782	03/08/2001	WIPO			
	AAAAAA	WO 01/16770	03/08/2001	WIPO			
	BBBBBB	WO 01/16769	03/08/2001	WIPO			
	CCCCCC	WO 01/15718	03/08/2001	WIPO			
<i>V</i>	DDDDDD	WO 97/38372	10/16/1997	WIPO			

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							Yes	No
<i>GCR</i>	EEEEEEEEE	WO 94/15287	07/07/1994	WIPO				
	AFFFFFFF	EP 0 809 180	11/26/1997	Europe				
	GGGGGGG	EP 0 745 933	12/04/1996	Europe				
	HHHHHHH	EP 0 633 678	01/11/1995	Europe				
	AIIIIIII	EP 0 464 715	01/08/1992	Europe				
	AJJJJJJJ	EP 0 379 709	08/01/1990	Europe				
<i>V</i>	KKKKKKK	59111533	06/27/1984	Japan				

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<i>GCR</i>	LLLLLLLLL	Byrd et al., "Multithread Processor Architectures," <i>IEEE Spectrum</i> , Vol. 32, No. 8, New York, 1 August 1995, pp. 38-46.
	MMMMMMMM	Doyle et al., <i>Microsoft Press Computer Dictionary</i> , 2 nd ed., Microsoft Press, Redmond, Washington, USA, 1994, p. 326.
	NNNNNNNN	Fillo et al., "The M-Machine Multicomputer," IEEE Proceedings of MICRO-28, 1995, pp. 146-156.
	OOOOOOOO	Gomez et al., "Efficient Multithreaded User-Space Transport for Network Computing: Design and Test of the TRAP Protocol," <i>Journal of Parallel and Distributed Computing</i> , Academic Press, Duluth, Minnesota, USA, vol. 40, no. 1, 10 January 1997, pp. 103-117.
	APPPPPPPP	Haug et al., "Reconfigurable hardware as shared resource for parallel threads," IEEE Symposium on FPGAs for Custom Computing Machines, 1998.
	QQQQQQQQ	Hauser et al., "Garp: a MIPS processor with a reconfigurable coprocessor," Proceedings of the 5 th Annual IEEE Symposium on Field-Programmable Custom Computing Machines, 1997.
	RRRRRRRR	Hyde, R., "Overview of Memory Management," <i>Byte</i> , vol. 13, no. 4, 1998, pp. 219-225.
	ASSSSSSSS	Litch et al., "StrongARMing Portable Communications," <i>IEEE Micro</i> , 1998, pp. 48-55.
	TTTTTTTT	Schmidt et al., "The Performance of Alternative Threading Architectures for Parallel Communication Subsystems," Internet Document, <i>Online!</i> , 13 November 1998.
	UUUUUUUU	Thistle et al., "A Processor Architecture for Horizon," <i>IEEE</i> , 1998, pp. 35-41.
	VVVVVVVV	Tremblay et al., "A Three Dimensional Register File for Superscalar Processors," <i>IEEE Proceedings of the 28th Annual Hawaii International Conference on System Sciences</i> , 1995, pp. 191-201.
	WWWWWWWW	Trimberger et al., "A time-multiplexed FPGA," Proceedings of the 5 th Annual IEEE Symposium on Field-Programmable Custom Computing Machines, 1998.
<i>V</i>	XXXXXXXXX	Turner et al., "Design of a High Performance Active Router," Internet Document, <i>Online</i> , 18 March 1999.

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Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
<i>GR</i>	YYYYYYYY	Vibhatavajit et al., "Simultaneous Multithreading-Based Routers," Proceedings of the 2000 International Conference of Parallel Processing, Toronto, Ontario, Canada, 21-24 August 2000, pp. 362-359.
<i>GR</i>	ZZZZZZZ	Wazlowski et al., "PRSIM-II computer and architecture," IEEE Proceedings, Workshop on FPGAs for Custom Computing Machines, 1993.

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